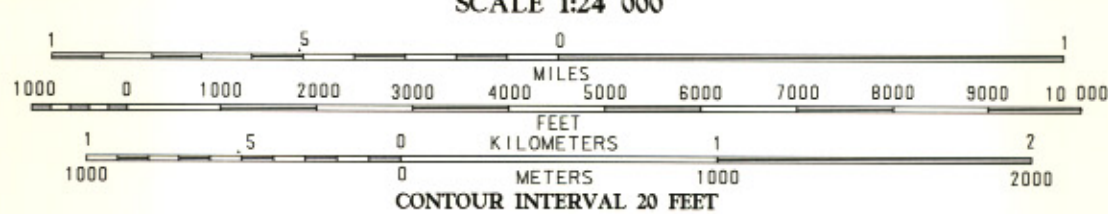
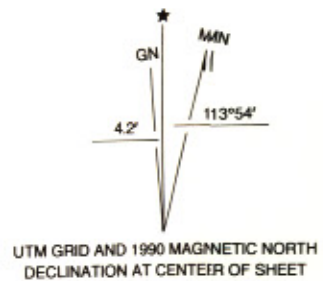


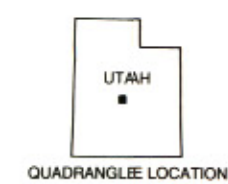
Provisional base map from U.S. Geological Survey,
Juab Quadrangle, 1983

Malcolm P. Weiss, Thesis Chairman
J.W. Parker, Cartographer



**PROVISIONAL GEOLOGIC MAP OF
THE JUAB QUADRANGLE,
JUAB COUNTY, UTAH**

by
Donald L. Clark
1990

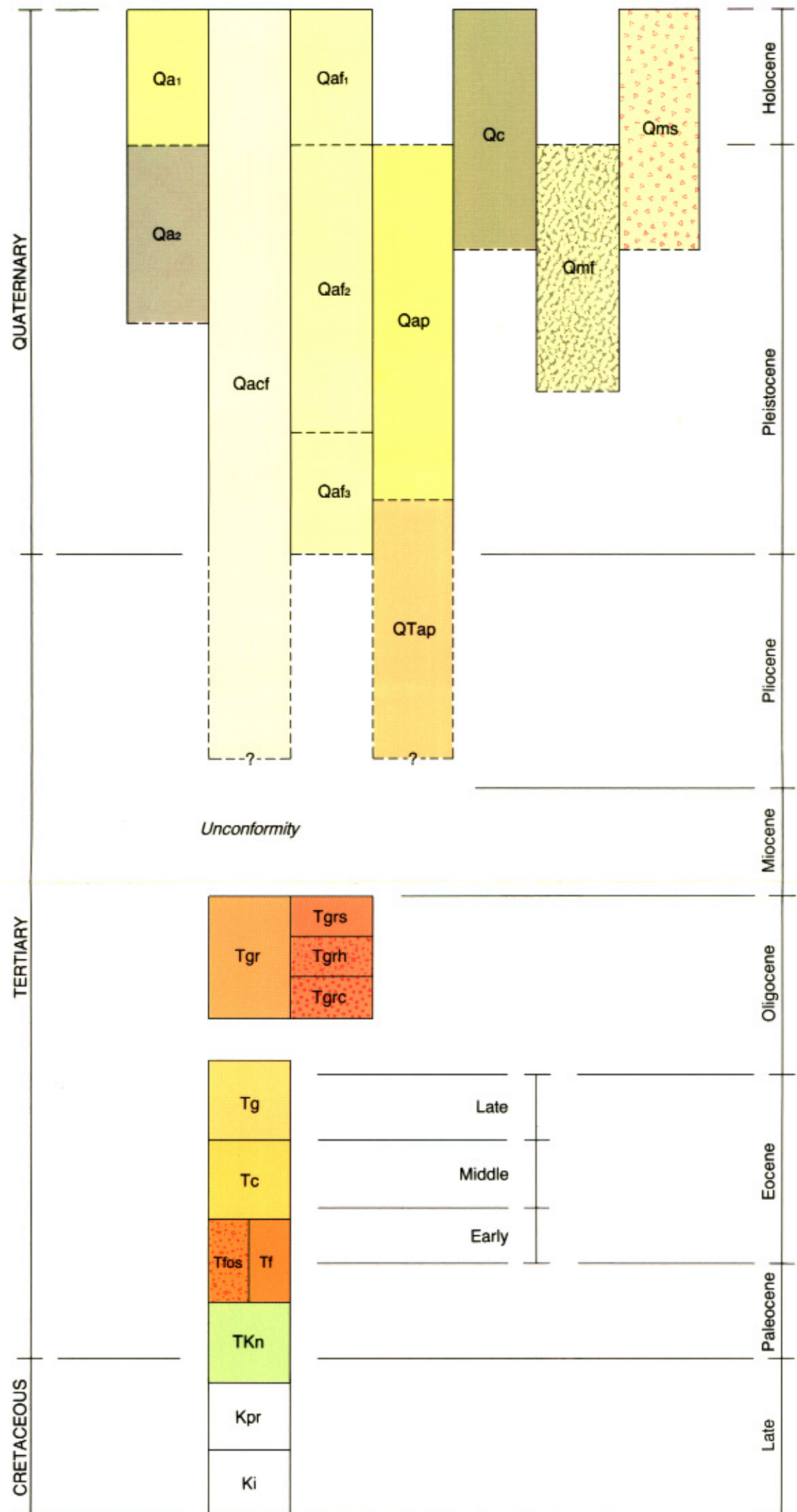


DESCRIPTION OF MAP UNITS

- Qa₁** Younger alluvium — Clay- to boulder-sized detritus, locally derived and deposited along intermittent streams.
- Qa₂** Older alluvium — Deposits incised by younger alluvium and of similar composition.
- Qaf₁** Younger alluvial fans — Clay- to boulder-sized debris derived from local bedrock, composing coalescing fan system overlying Qa₂.
- Qaf₂** Older alluvial fans — Dissected alluvial apron formed of a coalesced series of fans.
- Qaf₃** Oldest alluvial fan — Dissected and faulted, solitary fan containing Flagstaff debris, higher than Qaf₂.
- Qacf** Coalesced alluvial fans — Extensive coalescing alluvial fan systems (bajadas) of Juab Valley; clay- to boulder-sized material.
- Qap** Younger pediment alluvium — Thin, gently sloping mantle of clay- to boulder-sized material overlying a truncated bedrock surface.
- QTap** Older pediment alluvium — Mostly clay, silt, and sand; higher and more dissected than Qap.
- Qc** Colluvium — Slope cover composed of fallen blocks, talus, boulders, and surficial debris.
- Qmf** Mass movement flow deposits — Debris flows consisting of North Horn and Flagstaff materials developed on steep slopes; mud-flow containing Green River and Flagstaff debris.
- Qms** Mass movement slump deposits — Small rotational slumps developed on steep slopes in the Green River, Orme Spring Conglomerate, and North Horn Formation.
- Tgr** Goldens Ranch Formation (undifferentiated) — Shown only on cross sections.
- Tgrs** Sage Valley Limestone Member of the Goldens Ranch Formation — Yellowish-gray to light-olive-gray limestone with plant remains, chert, vugs, gastropods; interbedded clays.
- Tgrh** Hall Canyon Conglomerate (Meibos, 1983) — Gray-colored volcanic conglomerate and conglomerate, volcanoclastic sandstone and siltstone, tuffaceous sandstone, tuff, and bentonitic clay.
- Tgrc** Chicken Creek Tuff Member of the Goldens Ranch Formation — Light-gray to grayish-pink ash-flow tuff with biotite, pumice lapilli; K/Ar dated.
- Tg** Green River Formation — Interbedded moderate-greenish-yellow and gray mudstone, and platy yellowish-gray fossiliferous limestone, bentonitic at top; orange, brown, and gray conglomerate, mudstone, sandstone, siltstone; green mudstone, yellowish-gray to light-olive-gray limestone.
- Tc** Colton Formation — Moderate-reddish-orange and brown, and pale-red mudstone, sandstone, conglomerate; mottled carbonates.
- Tf** Flagstaff Formation — Pastel-colored limestone and dolomite; multicolored mudstone and siltstone, sandstone, conglomerate. Exposures in southern and central portions of the quadrangle.
- Tfos** Orme Spring Conglomerate — Pink and white conglomerate, mudstone, and lesser siltstone and calcareous sandstone. Exposures in northern portion of the quadrangle.
- TKn** North Horn Formation — Moderate-reddish-orange and brown conglomerate, mudstone, sandstone, siltstone; oncolites and gastropods.

Kpr (Price River Formation) and Ki (Indianola Group) shown on cross section only.

CORRELATION OF MAP UNITS



SYSTEM	SERIES (STAGE)	FORMATION	SYMBOL	THICKNESS Feet (Meters)	LITHOLOGY
QUATERNARY	Holocene	surficial deposits	Q	0-3000 (0-915)	
TERTIARY	Oligocene	Sage Valley Limestone Member	Tgrs	0-100 (0-31)	
		Hall Canyon Conglomerate Member	Tgrh	0-400+ (0-122+)	
		Chicken Creek Tuff Member	Tgrc	0-640+ (0-195+)	
	Eocene	Green River Formation	Tg	900 ± (274±)	
	Oligocene	Colton Formation	Tc	214-260 (65-79)	
TERTIARY	Paleocene	Flagstaff Formation	Tf	482-650 (147-198)	
		Orme Spring Conglomerate	Tfos		
CRET.	(Maas.)	North Horn Formation	TKn	1120+ (342+)	

MAP SYMBOLS

- CONTACT — Dashed where approximate.
- NORMAL FAULT — Dashed where inferred, dotted where concealed; bar and ball on downthrown side.
- SPRING
- STRIKE AND DIP OF BEDDING — In parentheses where approximate.
- GRAVEL PIT
- active
- abandoned
- OPEN PIT

